



Chem-Metals & Rare Earth

■ Bismuth Oxide

Bismuth Oxide is yellow powder with purity of 99.9%, 99.99%, 99.999%, 99.9999% (3N 4N 5N 6N), which is used as a yellow pigment in paints and cosmetics, a precursor to the preparation of other compounds of bismuth, and also finds applications in optical glass, flame-retardant paper, dental materials, glaze formulations, flux formulations for fire assaying and for the manufacturing of electronic element, varistor and lighting arrester, capacitor etc.



Formula	Bi ₂ O ₃
Appearance	Yellow powder
Molecular weight	465.96
Density	8.90 g/cm ³
Melting Point	817 °C
CAS No.	1304-76-3

No.	Item	Standard Specification				
1	Bi ₂ O ₃ ≥	99.9%	99.99%	99.999%	99.9999%	
		PCT Max	PPM Max	PPM Max	PPM Max	
2	Impurity	Pb	0.002	10	0.5	0.06
		Cu	0.002	10	1	0.06
		K	0.001	-	-	-
		Mg	0.004	5	0.5	0.06
		Na	0.006	-	-	0.04
		Ca	0.005	5	1	0.05
		Fe	0.005	10	0.5	0.1
		Mn	-	5	0.5	0.03
		Al	-	-	-	0.03
		Ni	-	5	0.5	0.1
		Co	-	5	0.5	-
		Ag	-	-	1	0.01
		Cr	-	-	0.5	0.05
	Cd/Zn/Sb	-	5	-	-	
3	Size	2-4.5μm	-100mesh	-325mesh	-100mesh	
4	Packing	25kgs in sealed plastic bag		1kg in polyethylene bottle		